

# ASTA News Update



November 1, 2013

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*ASTA gratefully acknowledges support from the following organizations:*



## BUILDING CAPACITY IN SCIENCE INSTRUCTION THROUGH THE FRAMEWORK FOR K-12 SCIENCE EDUCATION

**A Workshop for Science Educators & Leaders – November 13-14, 2013 at Mesa Convention Center**  
Register today at <https://www.azsta.org/node/482>

This workshop is designed to engage educators in developing deep understanding of science teaching and learning consistent with the vision for science education described in the *Framework*. The focus will be on the NRC publication, *A Framework for K-12 Science Education* and meaningful implementation of science standards for successful student performances in science.

Presenters include:

- Rodger Bybee
- Brett Moulding
- Arthur Beauchamp
- Richard Audet
- Jennifer Gutierrez
- Lacey Wieser

**Who:** PK-16+ Educators, Principals, Science Education Leaders, Informal Science Educators, Pre-Service and Professional Development Providers

**Where:** Mesa Convention Center

**Cost:** \$180 ASTA Members; \$200 Non-ASTA Members

[Register Today!](#)

Lodging - Marriot Phoenix Marriott Mesa Hotel & Convention Center, 200 N. Centennial Way, Mesa, AZ 85201, US Click here for reservation: <https://aws.passkey.com/event/10790261/owner/43094/home>

Presented by: ADE, Partnership for Effective Science Teaching & Learning, & ASTA

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### ASTA MEMBERSHIP DRIVE – NOVEMBER THROUGH DECEMBER

Do you have colleagues that you work with that are not a member of ASTA?

Are you supervising a pre-service teacher this year?

Do you need a gift for a teacher of science?

If you answered “yes” to any of the above questions, then you should share a “special invite” to join ASTA to that individual. During the month of November and December, teachers of science (PreK-Post Secondary and Formal and Informal educators) can join ASTA free for 10 months (January-October 31, 2014).

How?

First, print off the “[Special Invite](#)” Certificate for them. Then they can register 2 ways.

- 1) Join online at <https://www.azsta.org/members> choosing the pay by check option. Then they need to e-mail the certificate to [astaexecdir@gmail.com](mailto:astaexecdir@gmail.com) stating that they registered online. OR
- 2) Print off the membership form found at <https://www.azsta.org/members> and send the form and certificate to: ASTA – Membership Secretary, One Arizona Center, 400 E Van Buren Dr., Phoenix, AZ 85004 OR email them to [astaexecdir@gmail.com](mailto:astaexecdir@gmail.com)

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### NEW AZGFD EDUCATOR WORKSHOP AVAILABLE - PHOENIX

The Adobe Mountain Wildlife Center is the Arizona Game and Fish Department's wildlife rehabilitation center. Each year, the Wildlife Center opens its doors to the public for one weekend only. This year, the event will take place on **Saturday, November 23 and Sunday, November 24 from 10am to 3pm on both days.**

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The Adobe Mountain Wildlife Center Open House is your opportunity to learn more about wildlife native to Arizona and other education programs the Arizona Game and Fish Department offers. At the event, you will have the opportunity to see live wildlife displays and presentations.

The event is FREE. Food, drink and merchandise will be for sale. Adobe Mountain is located in north Phoenix. For information about the Adobe Mountain Open House in general, check out the informational flyer located at [http://www.azgfd.gov/i\\_e/ee/documents/adobe2013.pdf](http://www.azgfd.gov/i_e/ee/documents/adobe2013.pdf).

Do you want to attend the Open House AND earn professional development credits at the same time? This year, the Department is offering 1.5 hour educator workshops during the Open House. The training will consist of a guided tour and a look at relevant education materials. Two sessions are offered each day, one focused on elementary teachers and the other on secondary teachers. A certificate for 1.5 hours of continuing education credits will be provided at the end.

Participation in the educator workshops is free but registration is required. Space is limited. Specific workshop information will be provided to registered participants as the date approaches.

If you wish to register, please visit [http://www.azgfd.gov/i\\_e/ee/workshops/focus\\_openhouse.shtml](http://www.azgfd.gov/i_e/ee/workshops/focus_openhouse.shtml).

If you have questions, please contact Eric Proctor at [eproctor@azgfd.gov](mailto:eproctor@azgfd.gov).

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### LINK TO CONNECTIONS FOR NGSS

This is a great site that provides a ton of information on the NGSS. You can click on the cross cut, the science standard, and the CCCS and it will give you a lesson/activity that matches!

<http://concord.org/publications/newsletter/2013-spring/ngss-path>

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### ENGINEERING CAREERS FEATURED AT FREE GCC EVENT, FRIDAY MARCH 21, 2014 - PHOENIX

Visit our website: <http://www.gccaz.edu/EngineerYourFuture/>

Join engineers from Valley companies at "Engineer Your Future" on **March 21 at Glendale Community College** from 2-4 p.m. in the GCC Student Union SU104. The event will feature guest engineers from industry and GCC engineering and physics faculty. GCC students will present their projects, including robots, balsa bridges and more.

There will be a drawing for a 3 credit GCC scholarship. Other drawing prizes include chemistry, math, and physics books. The drawing ticket is given at sign in and you must be present to win.

At 4 p.m., college & high school students can compete in a paper tower-building competition for prizes. Refreshments will be served.

This event and parking are free and open to all. GCC is located at 6000 W. Olive Ave. in Glendale. <http://www.gccaz.edu/VisitorsAndFriends/MapsAndDirections/GCCMap.cfm?see=SU>

More information e-mail [cheryl.dellai@gccaz.edu](mailto:cheryl.dellai@gccaz.edu)

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### "C'MON GET HOPPY!" HANDS-ON FROG DISSECTION - SAFFORD

With Tammy Gillespie, Eastern Arizona Biology Instructor

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## **FREE In-service workshop - Wednesday, November 13<sup>th</sup>, 4:00 pm – 5:30 pm, EAC Discovery Park Campus - Ranch House**

They don't stink, bleed, or complain... so what are you waiting for!?!  
We all did it in high school... and you know that your students would love it... but do you remember how to make it fun and interesting?

Come and join us for this FREE Teacher Workshop where we'll get up to our elbows... so to speak, in remembering the details of frog dissecting and making it fun, like; all living things share the same DNA molecules, but how does that make us alike? Using frog specimens for comparative anatomy purposes, we will explore what things are the same between humans and frogs, from system to system. Then we will examine the structures specific to the frog that it uses for its unique life functions.

Come take a giant leap with us into what makes us tick. You'll be hoppy you did!

Click on the link below to register for this fun Workshop: Hurry! Limited to only 25 seats!

<http://www.surveymonkey.com/s/CmonGetHoppy>

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## **SAVE THE CORD FOUNDATION CBR LAB TOUR - TUCSON**

Please join Save the Cord Foundation for a tour of the Cbr (Cord Blood Registry) umbilical cord blood and tissue bank on **Wednesday, November 6, 2013 at 5 pm**

We will be meeting in the Cbr parking lot a few minutes before the tour.

6550 S Bay Colony Drive, One block east of the Tucson International Airport entrance, on Valencia road (south side)

Please RSVP to Charis Ober at [charis.ober@savethecordfoundation.org](mailto:charis.ober@savethecordfoundation.org) or call 520 419 0269 to make your tour reservation.

We look forward to showing you how cord blood is being used to treat and cure over 80 life threatening diseases such as leukemia and sickle cell anemia, and the role cord blood is playing in the field of regenerative medicine, and how it is being used to treat cerebral palsy, spinal cord injury, and brain injury, vision and hearing.

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## **NAU MAST PROGRAM**

We in the Center for Science Teaching and Learning at Northern Arizona University are excited to announce the newly redesigned Masters of Arts in Science Teaching (MAST) program for practicing secondary science teachers!

MAST is a continuing education graduate program designed to meet your needs as a professional science educator. The program can be taken on the Flagstaff campus or online through video conferencing. Whether you want to prepare for the Next Generation Science Standards, increase your knowledge of pedagogy or science content in order to improve your teaching practice, or you are interested in becoming a leader in your school or district, the MAST program is for you. Graduate courses include: 12 credits of science education, 15 credits of science content, and 3 research credits to complete your capstone experience.

New students can start in Fall, Spring, or Summer terms. Hurry, applications to begin Spring term are due **November 15th!**

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Contact Ron Gray at the address below for more information or to discuss how to design a program that best suits your needs.

Ron Gray, Ph.D.  
Assistant Professor of Science Education  
Center for Science Teaching and Learning  
Northern Arizona University  
Building 21, Room 159  
(928) 523-3618  
[ron.gray@nau.edu](mailto:ron.gray@nau.edu)

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## **AZ HIGH SCHOOL TEACHERS - PAID PROFESSIONAL DEVELOPMENT OPPORTUNITY GEOCACHE – PHOENIX & FLAGSTAFF**

Attention Arizona High School Teachers! Are you interested in helping students:  
Build 21st century workforce skills? Understand and analyze data?  
Engage in authentic projects that provide marketable job skills?

Now seeking participants for Geospatial Connections Promoting Advancement to Careers and Higher Education (GEOCACHE).

**APPLY TODAY! Application Deadline: December 1, 2013**

**WHAT:** A paid professional development opportunity to learn to integrate geospatial technologies and project based instruction.

### **WHEN:**

#### **I. Basic Institute\* Hybrid Course - Viewing and analyzing spatial data using ArcGIS Desktop**

Friday, January 31, 2014 (4:30pm–7:30pm) & Saturday, February 1, 2014 (8am–4pm) AND  
Friday, April 11, 2014 (4:30pm-7:30pm) & Saturday, April 12, 2014 (8am-4pm)

**WHO:** Teachers interested in learning to use geospatial technologies to solve spatial problems.

\*Can be taken in Mesa or Flagstaff. At minimum, applicants must commit to full participation in the 20 hour face to face Basic Institute & required online components.

#### **II. Advanced Institute - Designing a technology-integrated, project-based instructional unit or Geospatial Semester course** that may be offered for dual credit at your high school and MCC or NAU.

Monday, July 21, 2014 through Friday, July 25, 2014 (8am-4pm) at Mesa Community College

**WHO:** Teachers familiar with geospatial technologies interested in learning how to teach students to use the technologies within a project-based instructional framework.

### **BENEFITS TO TEACHERS:**

- High quality, professional learning experiences
- Some travel assistance to MCC in Mesa or NAU in Flagstaff
- Up to \$1,750 stipend for full participation in all project components
- Instructional and technical support as you implement
- Opportunities to work alongside high school and college faculty

For an application please visit <http://bit.ly/GFNn7B>. Questions? email [Lori.Hare@nau.edu](mailto:Lori.Hare@nau.edu)

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## **TEACHERS IN INDUSTRY**

Teachers in Industry is a dynamic program connecting middle- and high-school math, science, engineering and technology teachers across Arizona through our cohort-based program. Teachers become temporary

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paid summer employees of various industry and business partners over three summers, as they take courses at the University of Arizona. Teachers also take one course per semester for three years to complete their MA Degree. For teachers this is an exciting and unique way to earn a degree while experiencing real world work experiences. Best of all, through our coursework connections to their workplace experiences, teachers bring their real life experiences along with added expertise in content and delivery of math, science, engineering and technology, back to their classrooms each fall. Teachers in this program love the curriculum opportunities of real world experiences and building strong connections with other Arizona educators as well as area businesses.

We also invite you to share our program, Teachers in Industry, with STEM teachers and school administrators. Complete information and application instructions can be found at <http://teachersinindustry.arizona.edu>.  
**Applications are open for Summer 2014.**

Please don't hesitate to contact Julia Olsen, PhD directly if you have any questions at 520/621-5682 (office) <http://teachersinindustry.arizona.edu>

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## TODAY'S EDUCATION, TOMORROW'S CAREERS - PHOENIX

Explore the College of Engineering & Information Sciences

High school students are invited to attend a no cost event featuring engaging workshops in:

- Robotics
- Biomedical Engineering Technology
- Game & Simulation Programming
- Computer Information Systems
- Electronics Engineering Technology and more

RSVP required - space is limited. RSVP to Lucia Leon at [lleon2@devry.edu](mailto:lleon2@devry.edu) or 602-749-4571.

A complimentary lunch will be provided for all attendees. Substitute teacher and transportation cost assistance may be available. Please contact Chanel Dudoit, Manager of Educator Partnerships at 602-749-4571 for additional details.

**When: Friday, December 13, 2013 9:00am – 1:30pm**

**Where: DeVry University 2149 W. Dunlap Avenue Phoenix, Arizona 85021**

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## STEM CAREER ASSEMBLY FOR 9<sup>TH</sup> 7 10<sup>TH</sup> GRADE STUDENTS

According to the U.S. Department of Commerce, careers in science, technology, engineering and math (STEM) grew three times faster than non-STEM fields in the past 10 years. Yet, the number of students enrolling in college in STEM-related degree programs is dropping, leaving a gap between in-demand STEM jobs and the skilled professionals to fill them.

To help close that gap, DeVry University launched STEM Ready, a movement to introduce more high school students to STEM and careers in STEM-related fields, and doing so in conjunction with its faculty, staff, students, alumni, corporate partners and the U.S. Olympic Committee.

As part of the STEM Ready movement, DeVry University offers a high school assembly program to introduce STEM in a unique, yet compelling, way. STEM Career Assemblies will help spark students' interest and curiosity in STEM fields by telling the story of The Science and Technology Behind Team USA, in partnership with the U.S. Olympic Committee.

STEM Career Assemblies are geared towards **9th and 10th grade students**, designed to be 50 to 60 minutes in length, depending on the high school's class schedule, and can be conducted in a classroom, auditorium, cafeteria or gymnasium. Assembly highlights include:

- DeVry University College & Career Champion introducing STEM themes as they relate to sports

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- and other activities of interest to teens
- High-energy video demonstrating the intersection between STEM skills, sports and success through the lens of Team USA and their partners
- U.S. Olympic athletes sharing their stories on how STEM has impacted their sport and/or their individual performance

The Science and Technology Behind Team USA STEM Career Assemblies will put a face to careers in STEM-related fields by exposing students to experts and athletes either within a STEM field or affected by a STEM field, but in unexpected ways. Our mission is to demystify 'white lab coat' stereotypes and demonstrate that these career paths can lead to 'cool,' rewarding professions.

To reserve your STEM Assembly U.S. Olympic Athlete, please contact Chanel Dudoit, Manager of Educator Partnerships at 602-749-4571 or at [cdudoit@devry.edu](mailto:cdudoit@devry.edu)

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## BRING AN ELECTRONIC SCIENCE NOTEBOOK TO YOUR CLASSROOM

The Leonardo Project is an NSF-funded project focusing on elementary science learning and argumentation through electricity, magnetism, and weather. We are currently recruiting **4th and 5th grade classrooms** for the 2013-2014 school year to implement our electronic science notebook that is aligned with kit-based curricula (e.g. FOSS). The electronic science notebook runs via the web on Macs, PCs, or as an iPad application. Each student in your class will need a computer or iPad to use. Please visit our website at <http://leonardo.fi.ncsu.edu/> for more information. If interested, please fill out the online survey which can be found on the "Get Involved & Teacher FAQ's" section of the website or by clicking this link: [http://ncsu.qualtrics.com//SE/?SID=SV\\_0V3VzkgM3LzfSd](http://ncsu.qualtrics.com//SE/?SID=SV_0V3VzkgM3LzfSd).

Additionally, we will be hosting Professional Development sessions required prior to implementation. Participating teachers must choose one of the following dates to attend a 3-hour interactive webinar: **November 23 (12-3 pm), December 4 (6-9 pm)**. All times listed are in EST but some are later in the day to accommodate participants from the west coast. Workshops are limited to 15 participants and welcomed on a first come, first serve basis. Please contact [anshelto@ncsu.edu](mailto:anshelto@ncsu.edu) to register.

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## AMERICA'S HOME ENERGY EDUCATION CHALLENGE: SAVE ENERGY AND WIN PRIZES

Teams of students, from grades 3–8, can compete to save energy and win great prizes and awards for their schools or organizations. Students will learn about energy, create a plan to reduce their household's energy consumption, and implement those strategies. Regional and national prizes will be awarded, and the top school or organization will earn \$10,000. The registration deadline is **Friday, November 15**. [Learn more and sign up.](#)

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## SOARIN' SATURDAYS AT THE PIMA AIR & SPACE MUSEUM - TUCSON

### Model Airplane Make 'N Take 1:00pm Sat., Nov. 2nd.

For children 5 years of age and older accompanied by an adult. Enjoy building a model airplane with your family. Each child will build and take home a snap-together model airplane. Expert model builders from Sonoran Desert Model Builders will be on hand to help.

### Imagine Rockets 1:00pm Sat., Nov. 9th.

For children 8 years of age and older with an adult. This program spends 90 minutes to explore the physics and aerodynamics behind rocket flight. While building your own experiments you will learn about Newton's laws of motion, stability in flight, trajectories, and chemical reactions. All students will take three of the finished experiments home.

### How Things Fly 1:00pm Sat., Nov. 16th.

Kids age 8 and up with an adult explore the forces and technology behind flight with a series of experiments the kids build, test and take home. This class is 90 minutes long.

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### **Young Flyers Fun 1:00pm, Sat., Nov. 23rd.**

This program introduces children ages 4-7 (with parents) to the wonders of aviation and aerospace with gallery tours, story time, and crafts. Kids take the finished craft home. This month we are learning about the Candy Bomber from the Berlin Airlift. We will read Mercedes and the Chocolate Pilot, visit some of our aircraft that were used in the Berlin Air lift and make our own parachutes to drop candy.

### **Santa's Landing Sat., Dec. 14th.**

Santa arrives by helicopter to visit with kids. There will be holiday arts and crafts, a breakfast buffet in the Flight Grill (additional fee), and other activities. The Museum opens at 8:30am and Santa lands at 10:45am. All activities are free with paid or member admission. Visit [www.pimaair.org](http://www.pimaair.org) for more information.

### **NEW! Imagine Rockets Two-Day Workshop 10:00am-3:00pm Mon., Dec. 30th and Tues., Dec. 31st.**

During this workshop children age 10 and older will get the chance to learn the principles behind rocket flight, build and test air rockets, water rockets and a solid fuel model rocket. They can take home all rockets. The class is taught by rocketry expert Chris Welborn. The class is \$50 for nonmembers and \$40 for members. The price includes the solid fuel rocket model and lunch. For registration contact Mina Stafford at [mstafford@pimaair.org](mailto:mstafford@pimaair.org) . **There is a \$10 savings if registration is complete by Dec. 2nd.**

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## **ADVANCED INQUIRY PROGRAM - A MASTER'S PROGRAM AT THE PHOENIX ZOO**

The Phoenix Zoo is partnering with Project *Dragonfly* at Miami University of Ohio to bring an innovative and unique Master's degree program to Arizona. The Advanced Inquiry Program (AIP) is an inquiry-driven learning experience allowing participants to take classes in-person from faculty at the Phoenix Zoo and online from Miami University faculty. AIP is an exciting and affordable way to earn a Master's degree while maintaining full-time work.

Enrollment is open to applicants with a Bachelor's degree regardless of academic major or profession. The program is designed for teachers and other educational professionals.

### **The application period for summer 2013 is open until February 28, 2013.**

Join us for one of our free information session about the AIP program at the Phoenix Zoo:

- **Wednesday, November 13; 5 - 6 p.m.**
- **Saturday, November 16; 10 – 11 a.m.**

Visit <http://phoenixzoo.org/camps-programs/graduate-degree/> for more details!

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## **6TH THROUGH 8TH GRADE TEACHERS: GEMS SPACE SCIENCE SEQUENCE WORKSHOP**

Please join us for a compelling exploration of the *new* GEMS core curriculum sequence focused on the relationship of the Earth and other objects in the solar system, galaxy and universe. GEMS (Great Explorations in Math and Science) are a science and math curriculum program based out of the Lawrence Hall of Science, University of California at Berkeley. The GEMS core curriculum sequences combine the vitality and excellence of GEMS Teacher's Guides with greater coherence, scientific and educational depth, systematic assessment, and new learning technologies. Informational readings extend content and provide a literacy element.

### **GEMS Space Science Sequence Topics**

#### **How Does the Sun Affect the Earth?**

- The Sun as a main source of energy for Earth
- Electromagnetic spectrum
- Solar flares
- The Earth's shields

#### **Why Are There Seasons?**

- Addressing misconceptions
- Sunlight angles
- Spin axis, tilt, orbit
- Solstices

#### **The Solar System**

- Models

#### **Beyond the Solar System**

- Vast scale and structure of the universe

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- Organization
- Categories of object
- Movement

- Key role of light in understanding the universe
- Habitability

**When: December 13-14, 2013 - Friday, 9:00 am to 4 pm & Saturday, 9:00 am to 4 pm**

**Location:** NAU North Valley Campus, 15601 N. 28th Ave., Phoenix, AZ 85053

**Registration Fee:** \$195 Includes GEMS Space Science Sequence kit for Grades 6-8 (value \$975) and lunch daily

Register online at: [www.nau.edu/CSTL](http://www.nau.edu/CSTL)

Please note: Workshop attendees will be asked to participate in follow-up evaluations on how the curriculum materials are being implemented and what impact the materials have on student learning.

For more information, please contact: Lillie Giffen, [Lillie.Giffen@nau.edu](mailto:Lillie.Giffen@nau.edu), 928-523-7187

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## **MOVING TOWARD NGSS: CONNECTING SCIENCE TO COMMON CORE WITH PICTURE-PERFECT SCIENCE LESSONS**

**Dates – Web sessions: December 2, December 9, and December 16**

Where – [Visit NSTA to register](#)

Through synchronous web seminars plus asynchronous discussions and activities, course participants will:

- experience model lessons that teach the NGSS for grades K-5;
- learn how to integrate Common Core reading and writing standards into elementary science lessons;
- explore the 5E instructional model as a way to sequence elementary science lessons;
- and discover several quality science trade books that can be used to teach the NGSS and Common Core ELA standards.

Online Short Course Fees: \$179 for NSTA members, \$199 for nonmembers.

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## ARTS INTEGRATION FOR STEM - TUCSON

**When:** November 16, 10am - 4pm

**Where:** Tucson – Pima Community College West

**Register:** register online at [www.artsintegration.com](http://www.artsintegration.com)

**Fee:** \$25 includes lunch

This professional development intensive will focus on interdisciplinary approaches to learning in relevant, inquiry-based and project-based explorations that use the performing, visual and media arts to engage learners in science, technology, engineering, and mathematics.

Embedding arts integration strategies and tools for engaging in standard-based STEM practice into the intensive, participants will deepen knowledge construction while deliberately aligning academic content and the arts through reflective practice.

Experiences at the PD sessions, applied in the classroom, will engage learners at all grade levels, providing them with the problem solving, logical thinking and innovation skills needed to compete in the global marketplace.

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## FREEPORT-MCMORAN COPPER AND GOLD FOUNDATION MINI-GRANT INFORMATION

### WHO CAN APPLY

Applicants may be teachers, school administrators or parent volunteers/PTA officials at public and private schools located in or near communities where Freeport-McMoRan Copper & Gold has a presence. K-12 schools are the only organizations eligible for this support.

### GRANT AWARDS & USE OF FUNDS

Grants in the range of \$100 to \$500 will be awarded to support projects in the eligible project categories (Environment; Mining, mineral and natural resources; Reading and literacy; and STEM – Science, Technology, Engineering and Math). A school is eligible to receive up to four (4) mini-grants during each application period. Each applicant/teacher/classroom may receive one mini-grant award per school year.

The application link and additional information is available at:

<http://www.freeportinmycommunity.com/schools/mini-grants>.

And, if you aren't receiving the email notifications from our Foundation about upcoming funding opportunities, [please use this link to get signed up!](#)

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## APPLY FOR 2014-2015 EINSTEIN FELLOWSHIP

**Applications must be received by December 4, 2013.**

Check out the website, and consider applying - it will be a powerful PD experience that you will not regret!

<http://www.trianglecoalition.org/bulletin/september-24-2013#a>

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## BRING EVOLUTION TO YOUR SCHOOL/COMMUNITY FOR DARWIN DAY 2014!

Interested in bringing cutting-edge evolutionary science to your school and community? Apply to be a stop on NESCent's 2014 [Darwin Day Roadshow](#).

[NESCent](#) (The National Evolutionary Synthesis Center) is an NSF-funded evolution research center. To celebrate Charles Darwin's contributions to science and society, we send our scientists on the road every year around "Darwin Day" (the annual, world-wide celebration of Darwin's birthday on Feb. 12<sup>th</sup>) to talk to students,

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teachers and the general public about their research and career opportunities in science. Our focus is on small, rural communities (i.e., places that wouldn't likely have a Darwin Day celebration if they weren't a stop on our Roadshow) and any schools with traditionally under-served students. There is no cost to you, the teachers, and we'll even leave you with a collection of evolution teaching resources!

For more information, and to apply to have your school considered, please visit [roadshow.nescent.org](http://roadshow.nescent.org) or contact Jory Weintraub (jory at nescent dot org). **Applications are being accepted now through Friday, November 27th.**

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## REGISTRATION IS NOW OPEN FOR THE 12TH ANNUAL ECYBERMISSION COMPETITION!

The eCYBERMISSION [Early Registration Deadline](#) is less than a month away! Make sure all of your students are registered and are on a COMPLETE TEAM by **November 1** so they can receive a free STEM Research Kit. You can ensure all your teams are complete by checking that your students' teams have 3-4 students on them and are linked to you as the Team Advisor. The eCYBERMISSION Mission Control staff can register students for you—just ask us. We will ship STEM Research Kits to you and your registered students starting the first week of November. Additionally, all registered Team Advisors will receive an eCYBERMISSION STEM Activity Kit containing supplies they can use in the classroom to demonstrate scientific inquiry and design engineering problems.

Students who are logged into the Student Homepage can now access our Discussion Forums, located under "Mission Folder Status." The Discussion Forums allow students to connect with CyberGuides for help with their Mission Folders, as well as general discussions on Mission Challenges and announcements.

If you have any questions or concerns, contact us at 1-866-GO-CYBER (462-9237) or [missioncontrol@ecybermission.com](mailto:missioncontrol@ecybermission.com).

Ready to register for Ecybermission [Register today!](#) - Be sure use the code: **NSTA: Referred by NSTA State Chapter.**

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## PREPARE NOW FOR NGSS WITH NSTA FREE WEB SEMINARS ON CORE IDEAS

NSTA has kicked off its next series of informative, interactive web seminars exploring the Next Generation Science Standards (NGSS).

[Register now](#) for the web seminar series on disciplinary core ideas.

Nov. 5: Earth's Place in the Universe  
Nov. 19: Earth's Systems  
Dec. 3: Earth and Human Activity

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## APPLY FOR VERNIER/NSTA TECHNOLOGY AWARD. NOV. 30 DEADLINE

Vernier Software & Technology and the National Science Teachers Association (NSTA) are now accepting applications for the annual Vernier/NSTA Technology Awards.

The 2014 awards program will recognize up to seven educators—one elementary teacher, two middle school teachers, three high school teachers, and one college-level educator—who promote the innovative use of data-collection technology.

Prizes include \$1,000 in cash, \$3,000 in Vernier products, and up to \$1,500 toward expenses to attend the 2014 NSTA National Conference in Boston, Massachusetts. Award recipients will be chosen based on their application, which is judged by a panel of NSTA-appointed experts. All applications must be submitted by **November 30, 2013.**

*ASTA gratefully acknowledges support from the following organizations:*



The Vernier/NSTA awards program allows Vernier to recognize STEM educators who are using data-collection technology with their students in truly engaging and innovative ways. Last year's winning entries encompassed a wide range of data-collection activities, including the investigation of the pH found in different cakes and chemical reactions, the creation of control boxes for underwater, remotely operated vehicles, the design of biological buffers for water treatment, and the exploration of environmental radiation and its effects on cellular growth.

For more information, visit <http://www.vernier.com/grants/nsta> **ENTRY DEADLINE: Nov. 30, 2013**

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### WIN A SHELL SCIENCE LAB MAKEOVER VALUED AT \$20,000 FOR YOUR SCHOOL

Are you a science teacher succeeding in providing exemplary lab instruction with minimal equipment and resources? The Shell Science Lab Challenge offers you a chance to compete to win a school science lab makeover, valued at \$20,000, by sharing your creative approach. Middle and high school science teachers (grades 6-12) in the United States and Canada who have found innovative ways to deliver quality lab experiences with limited school and laboratory resources are encouraged to apply! The deadline for submissions is **December 20, 2013**.

All winners will receive science lab equipment, Shell cash grants, NSTA membership, and support to attend NSTA Conferences on Science Education. The grand prize winner and four national finalists will be honored at a special banquet and ceremony at NSTA's National Conference on Science Education in Boston in April 2014. For more information about the Challenge or to download an application, [click here](#).

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### ADE PROFESSIONAL DEVELOPMENT OPPORTUNITIES -PHOENIX

#### **Save the Date: January 16th, 2014, "Developing Readers in Disciplinary Literacy"**

Doug Buehl will present a one-day session on literacy practices that boost comprehension and develop students as readers of complex texts within science and technical subjects. Registration information will be forthcoming.

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